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EXTENSION 33 (BSP1-5319L CONT)  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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DEC 06 2000

Application of Olson, et al  
Serial No. 09/654,688  
Filed September 5, 2000  
For HEMOGLOBIN MUTANTS THAT REDUCE HEME LOSS

TECH CENTER 1600/2900

November 27, 2000

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS,

SIR:

**INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit the attached PTO Form SB/08A (modified) for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record herein.

The references listed on the attached PTO/SB/08A have been previously submitted in parent application Serial No. 09/051,872 and, therefore, in accordance with MPEP 609, are not being provided at this time.

Respectfully submitted,

Edward J. Hejlek, Reg. No. 31,525  
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**CERTIFICATE OF MAILING**

I certify that this Information Disclosure Statement and attached PTO Form SB/08A are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this 27 day of November, 2000.

  
Carol Aschenbrenner

EJH/caa

\*Attachments

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 09/654,688

DEC 06 2000

Filing Date September 5, 2000

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First Named Inventor Olson, et al.

Group Art Unit 1653

Examiner Name

(use as many sheets as necessary)

Sheet

1

of

4

Attorney Docket No.

BSP1-5319L

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
	1	4,873,192		Kunkel	10/10/1989
	2	5,028,588		Hoffman	07/02/1991

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
	3		WO 88/09179		Hoffman	12/01/88	
	4		WO 90/13645		Hoffman	11/15/90	
	5		WO 91/16349		De Angelo	10/31/91	
	6		WO 91/19505		Fronticelli	12/26/91	
	7		WO 92/11283		Townes	07/09/92	
	8		WO 92/22646		Logan	12/23/92	
	9		WO 93/08831		DeAngelo	05/13/93	
	10		WO 95/07932		Komiyama	03/23/95	
	11		WO 95/14038		Milne	05/26/95	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	09/654,688
				Filing Date	September 5, 2000
				First Named Inventor	Olson, et al.
				Group Art Unit	1653
				Examiner Name	
Sheet	2	of	4	Attorney Docket No.	BSP1-5319L

### FOREIGN PATENT DOCUMENTS cont.

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
	12		WO 96/27388		Gerber	09/12/96	

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	13	Winterbourn et al. (1974), J. Clin. Invest. <b>54</b> :678-689	
	14	Ascoli et al. (1981), Meth. Enzymol. <b>76</b> :72-87	
	15	Fermi et al. (1984), J. Mol. Biol. <b>175</b> :159-174	
	16	Taylor et al. (1985), Nucl. Acids Res. <b>13</b> :8749-8764	
	17	Taylor et al. (1985), Nucl. Acids Res. <b>13</b> :8765-8785	
	18	Dente et al. (1985), pp. 101-107 in DNA Cloning,	
	19	Kunkel (1985), Proc. Natl. Acad. Sci. USA <b>82</b> :488-492	
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	21	Bunn et al. (1986), Chapter 16, pp. 634-662 in Hemoglobin: Molecular, Genetic and Clinical Aspects	
	22	Chatterjee et al. (1986), J. Biol. Chem. <b>261</b> :9929-9937	
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				Group Art Unit	1653
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<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>			
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	24	Kunkel et al. (1987), Meth. Enzymol. <b>154</b> :367-382	
	25	Vincent (1989), Semin Hematol. <b>26</b> :105-113	
	26	Perutz (1989), Trends Biochem. Sci. <b>14</b> :42-44	
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	28	Hughson et al. (1990), Science <b>249</b> :1544-1548	
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	30	Jones et al. (1990), BioTechniques <b>8</b> :178-183	
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	32	Zhang et al. (1991), J. Biol. Chem. <b>266</b> :24698-24701	
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	36	Yao et al. (1992), PCR Methods and Applications, <b>1</b> :205-207	
	37	Vandegriff (1992), Biotechnology and Genetic Engineering Reviews <b>10</b> :403-453	
	38	Fronticelli et al. (1993), Biochemistry <b>32</b> :1235-1242	
	39	Hargrove et al. (1994), Biochemistry <b>33</b> :11767-11775	
	40	Springer et al. (1994), Chem. Rev. <b>94</b> :699-714	

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	41	Looker et al. (1994), Meth. Enzymol. <b>231</b> :364-374	
	42	Hargrove et al. (1994), J. Biol. Chem. <b>269</b> :4207-4214	
	43	Whitaker et al. (1995), Biochemistry <b>34</b> :8221-8226	
	44	Vandegriff (1995), pp. 105-131 in Blood Substitutes: Physiological Basis of Efficacy, Birkhauser, Boston	
	45	Hargrove et al. (1996), Biochemistry <b>35</b> :11293-11299	
	46	Hargrove et al. (1996), Biochemistry <b>35</b> :11300-11309	
	47	Hargrove et al. (1996), Biochemistry <b>35</b> :11310-11318	

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